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(54) **BIOLOGICAL FLUID COLLECTION DEVICE**

(57) A biological fluid collection device that produces a stabilized biological sample with head-to-tail uniformity through the capturing of a high concentration front and subsequent redistribution of the high concentration front throughout a biological fluid is disclosed. The biological fluid collection device includes an inline mixer used for head-to-tail mixing of a concentrated flow front. The mix-

ing is achieved via a two-stage process. First, a front fraction of the flow is captured within a centered mixing chamber via capillary assisted flow action. Second, the captured front volume is then slowly released throughout a small exit hole and recombined with the rest of the flow volume that was diverted around the centered mixer chamber.

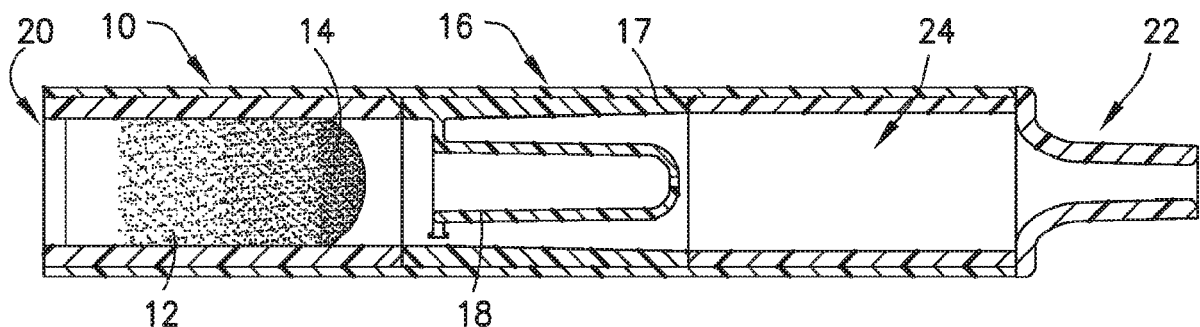


FIG.2



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The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 23 August 2021	Examiner Nielsen, Michael
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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